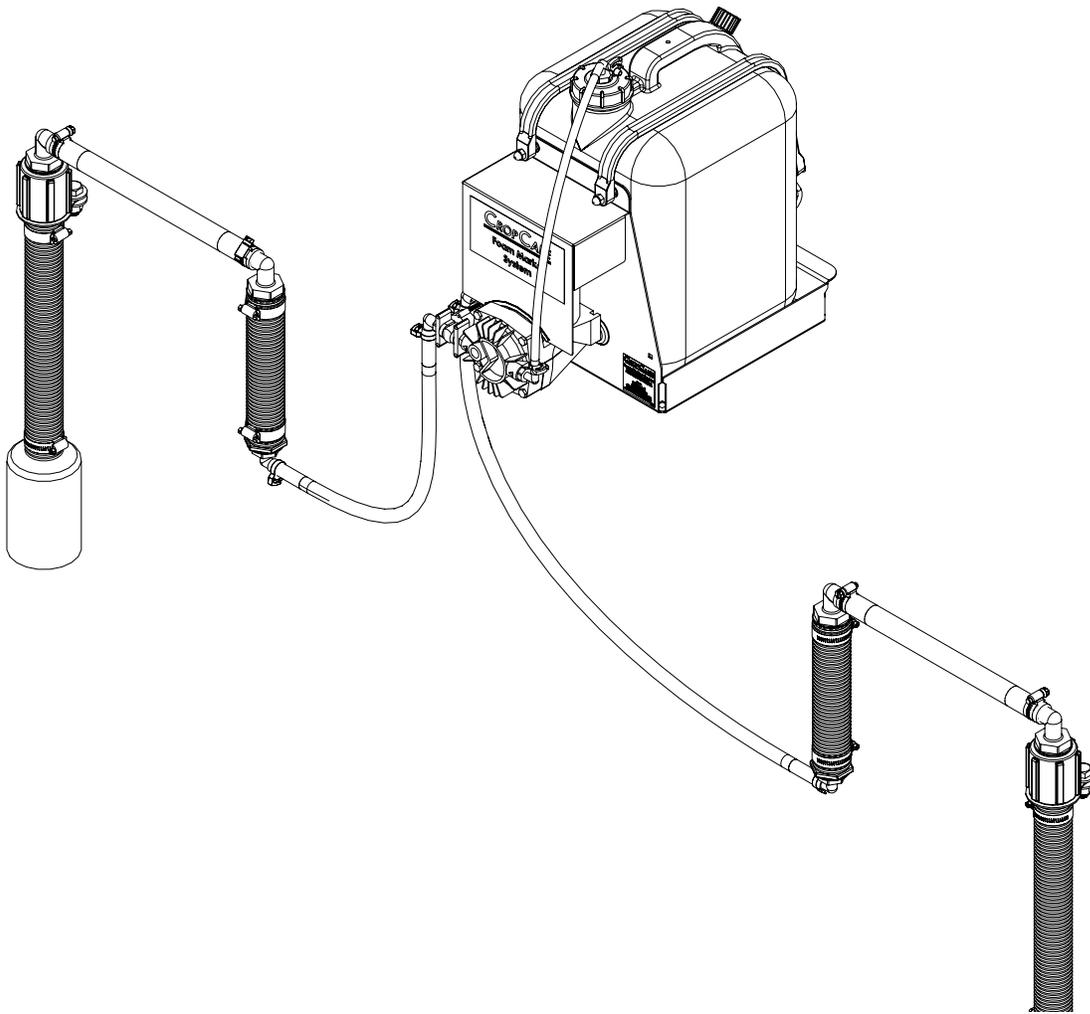




# Owner's Manual

## 5 Gallon Foam Marker Model: F1500A



Manufactured by PBZ LLC  
A Paul B Zimmerman Inc. Company  
[www.CropCareEquipment.com](http://www.CropCareEquipment.com)

Form F1500AOM  
Rev: C Date: 3/22

# Table Of Contents

|                                    |   |                                |       |
|------------------------------------|---|--------------------------------|-------|
| Specifications.....                | 2 | Troubleshooting .....          | 8     |
| Before You Begin.....              | 3 | Wiring Schematic .....         | 9     |
| Safety Precautions.....            | 3 | Breakdowns & Parts Lists ..... | 10    |
| General Guidelines.....            | 3 | Foam Marker Breakdown.....     | 10-11 |
| Mounting the Foam Marker .....     | 4 | Foam Marker Parts List .....   | 12-13 |
| Foam Marker Unit.....              | 4 | Compressor Breakdown.....      | 14    |
| Foam Marker Parts Bag.....         | 4 | Compressor Breakdown.....      | 15    |
| Wiring Harness .....               | 4 | Discharge Tube Breakdown ..... | 16    |
| Mixing Chambers .....              | 5 | Mixing Chamber Breakdown ..... | 17    |
| Discharge Tubes.....               | 5 | Limited Warranty .....         | 18    |
| Discharge Hoses.....               | 6 |                                |       |
| Operating Instructions .....       | 6 |                                |       |
| Maintenance Instructions .....     | 7 |                                |       |
| Routine Maintenance.....           | 7 |                                |       |
| Winterizing your Foam Marker ..... | 7 |                                |       |

# Specifications

5 gallon Foam Marker  
Model #: F1500A

|                               |                                |
|-------------------------------|--------------------------------|
| Tank Capacity.....            | 5 gallons                      |
| Power usage.....              | 7 amp draw / 15 amp start load |
| Min power supply .....        | 12 volt / 15 amp               |
| Max continuous run time ..... | 2 hours                        |
| Max boom length.....          | .60'                           |
| Wiring Harness .....          | .24' length                    |
| Shipping weight .....         | .41 lbs                        |

# Before You Begin



Please read and understand this manual and its instructions and warnings completely before operating the foam marker.

- Be aware of all safety guidelines, warnings, and cautions including those of the sprayer, no-till drill, or any other piece of equipment that the foam marker may be mounted on.
- Read and understand the warnings and instructions of the foam concentrate that you are using.
- Always use an approved foam concentrate.
- Ensure that you have a power source that meets the requirements of 12 volt DC and 15 amps.

# Safety Precautions



## General Guidelines

Every year many unnecessary accidents occur due to improper equipment handling and a disregard for safety precautions. You, the operator, can avoid accidents by observing the precautions listed in this section.

- The operator should be a responsible adult. Do not allow persons to operate the foam marker until they have displayed a thorough understanding of foam marker safety precautions and operational use.
- Never attempt to operate the foam marker while under the influence of alcohol or drugs.
- Always use an approved foam solution. Do not, on any occasion, use dish soap, hand soap, or any other cleaning product. The use of an unapproved foaming solution could result in lowered performance or machine damage.
- Do not eliminate the fuse on the battery wiring harness under any circumstances. Elimination of the fuse could result in damage to the machine or personal injury.
- Always disconnect the power before performing maintenance or repairs on the foam marker. Failure to adhere to this warning could result in personal injury.
- When performing maintenance on the foam marker, pay close attention to any moving parts. Be especially aware of the metal fan blade on the compressor.
- Do not touch the surface of the compressor since it may cause burns during and after operation. See the warning label on the compressor.



Figure 1: Owner's Manual Decal (DE39)

- Be aware of the location of the owner's manual warning decal on the foam marker's frame. Always replace any warning decals that are not legible or are missing (Figure 1).
- Do not attempt to adjust the foam discharge rate. This rate is preset and should never need to be adjusted. Any such adjustment will void the manufacturer's warranty.
- If there is any portion of this manual that you do not fully understand, please contact the original retailer for more information.

# Mounting the Foam Marker

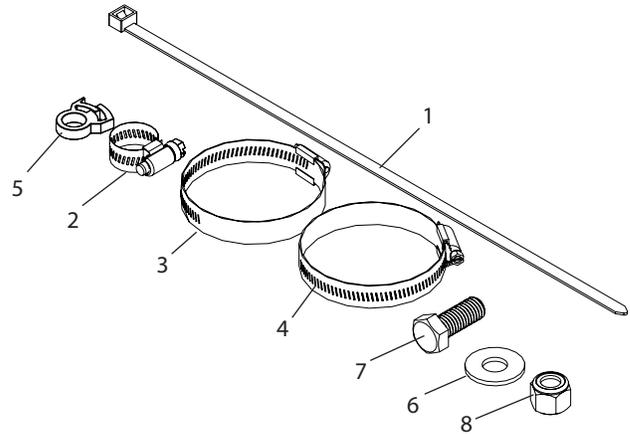
It is important to follow these mounting instructions to ensure that your CropCare® foam marker system operates at its fullest potential. Please note that these are only general instructions for proper mounting and may not be relevant to all applications. In certain applications, you may need be creative in order to achieve the best mounting technique. If you are having trouble mounting your foam marker, please contact the original retailer for service.

## Foam Marker Unit

1. Begin by choosing a convenient location that is easily accessible for mounting and filling the solution tank. The foam marker should be mounted where it will receive a minimal amount of dust or dirt. The mounting location must be able to support the weight of the foam marker unit with a full solution tank.
2. Secure the foam marker unit by attaching the foam marker frame to your equipment with bolts. Four square holes are located on the bottom of the foam marker frame. It is recommended to use 3/8" bolts to provide optimal stability.

## Foam Marker Parts Bag

| Ref # | Qty. | Part Number | Description                 |
|-------|------|-------------|-----------------------------|
| 1     | 25   | 1475UV      | Cable ties, 14", black      |
| 2     | 4    | 6810        | Stainless hose clamp        |
| 3     | 4    | 6828        | Stainless hose clamp        |
| 4     | 4    | 6864        | Stainless hose clamp        |
| 5     | 4    | HC067       | Snap grip clamp, size F     |
| 6     | 4    | FW12S       | Washer, Flat, 1/2" SS       |
| 7     | 2    | H12*114S    | Bolt, Hex 1/2-13 x 1 1/4 SS |
| 8     | 2    | NNC12S      | Nut, Lock Nylon 1/2-13 SS   |



## Wiring Harness

1. The compressor wiring harness (F1509A) has a 3-pronged plug (a) on one end and is connected to the compressor and solenoid valve on the other end. Route this wiring harness under the foam marker cover. The compressor wiring harness needs to be connected to the power wiring harness (F1507) which is connected to the power source and the control box (b) (Figure 2).
2. The power wiring harness (F1507) needs to be connected to a 12 volt, 15 amp DC power source. Connect the red wire to a positive power source either at the tractor's battery terminal or at a power access point with at least 15 amp capability. The brown wire needs to be connected to a good ground source or to the negative terminal of the battery (Figure 2).
3. Refer to the wiring schematic (page 9) for a visual representation of the wiring assembly.
4. Ensure that the power source is adequate. If you are using a power access point, ensure that it has at least 15 amp capability.

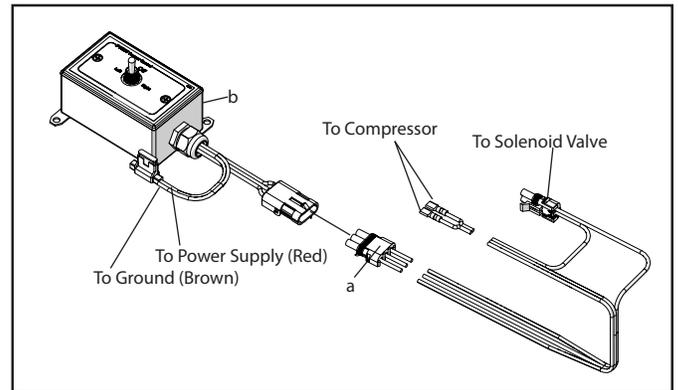


Figure 2: Wiring harness

5. Mount the control box in a location where it is easily accessible for operation. There are two metal tabs with pre-drilled holes on the back of the control box that can be turned out for mounting. It is recommended to mount the control box using bolts through these metal tabs.

NOTE: Make sure the power source that is utilized is rated at a minimum 12 volts/15 amps. Using a 6 or 24 volt power source will cause damage to the machine and will void the manufacturer's warranty.

# Mounting the Foam Marker

## Mixing Chambers

1. The foam mixing chambers (a) must be mounted in a vertical position and can be secured with the four (two for each mixing chamber) large hose clamps (b) included in the kit. The mixing chambers must be mounted with the 1/2" inlet (from solenoid valve) on the bottom, and the 3/4" outlet (to discharge tube) on the top. They should be positioned behind the sprayer or somewhere on the inner boom wing (Figure 3).
2. It is best to locate the mixing chambers where most of the 3/4" discharge hose can be used. (Limited to 25') This keeps the 1/2" hose shorter and will result in better foaming performance (Figure 3).

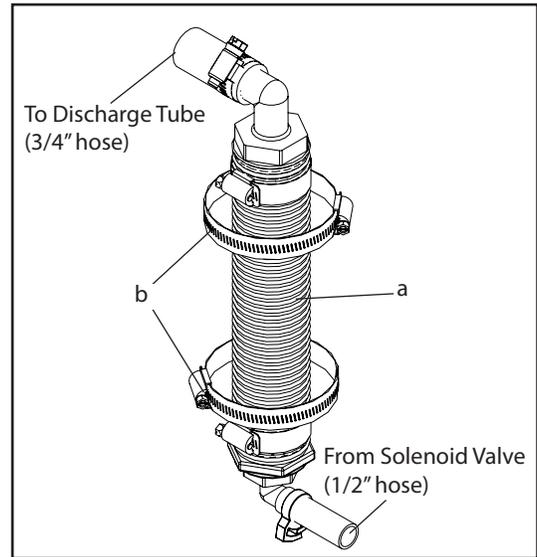


Figure 3: Mixing Chamber Mounting

## Discharge Tubes

1. The discharge tubes (a) dispense the foam and should be mounted in the desired foaming position. Generally, they are mounted at the end of a sprayer boom or at the ends of a no-till drill (Figure 4).
2. The discharge tube should be mounted using the 1/2" bolt (c) through the mounting bracket (d) (Figure 4).
3. If you are mounting the tube on a sprayer, a standard nozzle body clamp (e) can be used. Simply mount the clamp on the sprayer's boom and insert the 1/2" bolt through the hole where a nozzle body would normally be inserted and place a flat washer on either side of the clamp as shown (Figure 4).
4. On other applications it is also feasible to simply drill a hole through the equipment frame and thread the 1/2" bolt through the hole and into the top of the discharge tube.
5. Ensure that the discharge tubes do not interfere with the operation of the equipment it is mounted on. For example, make sure that the discharge tubes do not interfere with the spray pattern if you are mounting the foam marker on a sprayer.
6. Discharge tubes can also be fastened with two hose clamps (h).

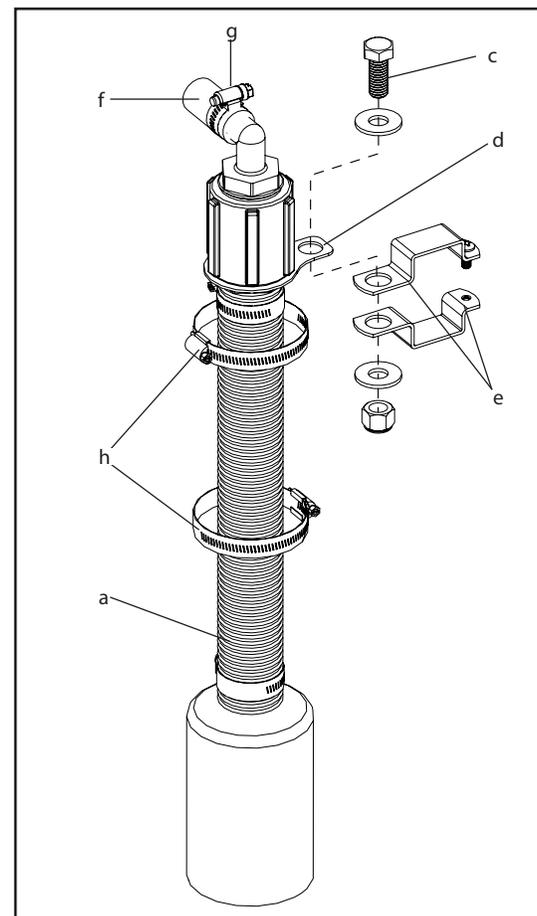


Figure 4: Discharge Tube

# Mounting the Foam Marker

## Discharge Hoses

1. One 30' length of 1/2" discharge hose is included and may be cut as needed. Begin by attaching the 1/2" discharge hose to the hose barbs (a) on the solenoid valve (b) on the foam marker. It is important that you know which hose barb is for the left and for the right side. Clamp the hose onto the hose barbs with the included nylon hose clamps (c) (Figure 5).
2. Route the 1/2" discharge hoses to the mixing chambers. If you are attaching the discharge hose to a sprayer boom, pay close attention to the positioning of the discharge hose. The hose should be positioned in a manner such that it will not be kinked or pinched when the boom is in the folded or unfolded position.
3. Remember to also account for boom height adjustment or other movements that the hose will be subject to. With the discharge hoses in the correct position, fasten them with the included cable ties.
4. One 50' length of 3/4" discharge hose is included and may be cut as needed. Attach the 3/4" hose (f) to the mixing chambers and route to the discharge tubes. Clamp all ends with the included stainless hose clamps (g) and secure the hose with the included cable ties (Figure 4).

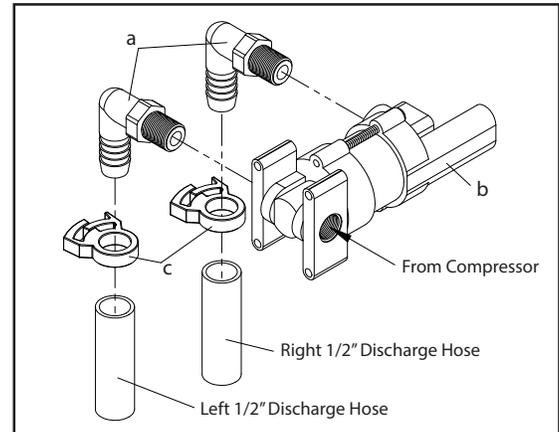


Figure 5: Discharge Hose Mounting

5. Be sure the hoses do not interfere with the operation of the machine.

**NOTE:** Be sure that the discharge hoses (1/2" and 3/4") are cut at equal lengths on both sides of the foam marker. This will ensure even foam output from both discharge tubes.

## Operating Instructions

Before operating the foam marker, it is important that you read this entire manual and know all of the safety precautions. Before operation it is also recommended that you do a thorough inspection of the foam marker. Ensure that all hoses are attached and undamaged and that the wiring harnesses are properly connected to each other and to an adequate power source.

1. Fill the foam solution tank with the proper mixture of water and an approved foam concentrate, according to the foam concentrate's manufacturer.
2. Do not use dish soap, hand soap, or any other unapproved foaming solution as this will cause damage to the machine and will void the manufacturer's warranty.
3. Flip the control switch on the control box to the left or the right to turn on the foam marker. Please note that only one discharge tube can dispense foam at a time.
4. Allow approximately one minute for the foam to reach the discharge tube. Do not attempt to adjust the foam discharge rate. This rate is preset and should never need to be adjusted. Please note: The 5 gallon capacity tank has an average foaming time of two hours. The 12 gallon capacity tank has an average foaming time of four hours.
5. To turn off the foam marker, flip the control switch to the center-off position.

**NOTE:** If you are operating the foam marker in temperatures below 32 degrees, it is recommended that you add 20% RV non-toxic antifreeze to the foaming solution. This will guard against freezing and breakdowns.

# Maintenance Instructions

It is very important to perform maintenance on your foam marker before and after each use and at the end of each season of use. Proper maintenance practices will help to guard against any breakdowns and allow for maximum performance.

## Routine Maintenance

Regular maintenance practices should include a thorough inspection. Ensure that all hoses are attached and undamaged and that the wiring harnesses are properly connected to each other and to an adequate power source. The following are important components of the foam marker and their respective maintenance requirements.

1. Liquid Strainer (a) (Figure 6): The liquid strainer is located in the foam solution tank on the end of the suction hose. It should be rinsed after each use or on a daily basis.
2. Orifice Disk (b) (Figure 6): The orifice disk is located behind the strainer on the end of the suction hose. Inspect the orifice disk occasionally to ensure that there are no debris or dirt plugging the disk's circular hole. **WARNING:** Do not operate the foam marker without this orifice disk. Such incomplete operation will result in damage to the compressor and will void the warranty.
3. Compressor Motor Bearings: The motor bearings are permanently lubricated ball bearings and do not require additional oil.
4. Solenoid Valve: No maintenance required.
5. Mixing Chamber Pads & Sponge (c and d) (Figure 7): Disassemble the mixing chambers and rinse out foam pads every season.

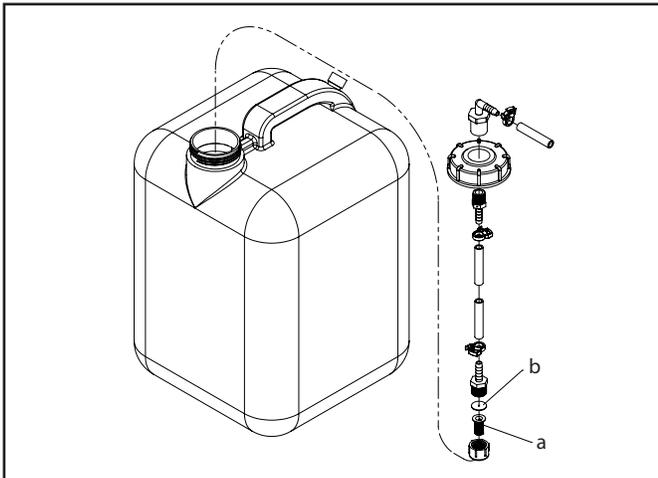


Figure 6: Foamer Tank Assembly

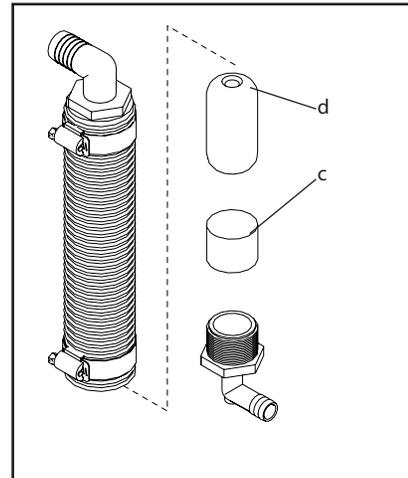


Figure 7: Mixing Chamber Pads

## Winterizing your Foam Marker

It is essential that you winterize your foam marker to avoid damage and to allow for optimal performance. The winterization process should be undertaken before freezing conditions and/or after each season of use. Failure to winterize your foam marker will void the manufacturer's warranty.

1. Verify that the solution tank is empty and rinsed out. Add  $\frac{1}{2}$  gallon of RV Nontoxic antifreeze to the empty solution tank. It is not recommended to use engine antifreeze. Engine antifreeze can be harmful to humans, animals, crops, and the environment.
2. Engage the foam marker until both the left and right side of the system are flushed.
3. Store the foam marker or the equipment that the foam marker is mounted on in a dry location away from the elements.

# Maintenance Instructions

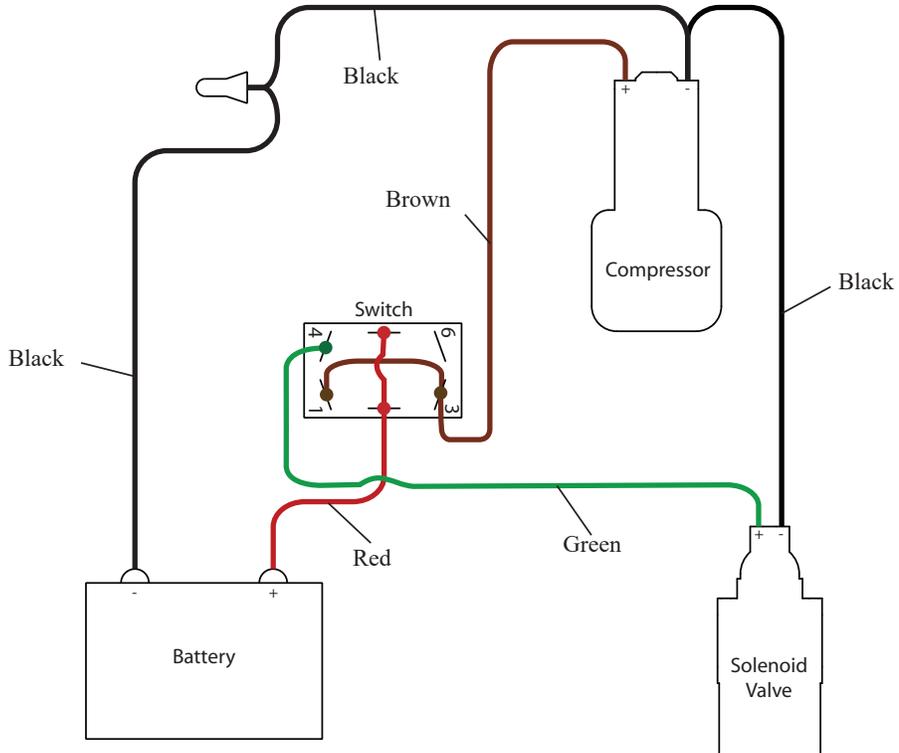
## Troubleshooting

During your many years of using the foam marker, it is possible that you will encounter minor problems that can be easily fixed. The following problems and respective causes and solutions should cover most of the potential problems that you may face. If you do encounter problems, please attempt to use this troubleshooting section to solve the problem. If you are unable to fix the problem please contact the original retailer for service.

| Problems/Symptoms     | Possible Causes   | Solutions  |
|-----------------------|---|--|
| Motor Will Not Run    | Loose wire connections  | Inspect wires and connections  |
|                       | Blown fuse  | Replace fuse on wiring harness   |
|                       | Malfunctioning switch   | Replace switch   |
|                       | Inadquate power source  | Connect power wires directly to 12 volt 15 amp. power supply                   |
| No Foam Output        | Broken or bent leaf valve inside the compressor                       | Replace leaf valve (See compressor breakdown on page 12)                       |
|                       | Discharge hose is pinched or kinked                                   | Locate problem area and fix or replace the hose                                |
|                       | Plugged orifice disk or strainer on the end of the suction hose       | Clean or replace the orifice disk or stainer (See figure 6, page 7)            |
|                       | Low voltage (11 volts or less) to compressor                          | Connect to 12 volt, 15 amp power supply  |
| Foam Only On One Side | Low voltage to solenoid valve   | Switch to an adequate power source   |
|                       | Faulty wiring or switch   | Replace wiring and/or switch   |
|                       | Solenoid valve burned out   | Replace the solenoid valve (ref # 24)  |
| Low Foam Rate         | Partially plugged orifice disk or strainer on the end of suction hose | Clean or replace the orifice disk or stainer (See figure 6, page 7)            |
|                       | Incorrect mixture of foam concentrate                                 | Use an approved foam concentrate and follow manufacturer's mixing instructions |
|                       | Water being used is hard  | Use softened or rain water   |
|                       | Low voltage (11 volts or less) to compressor                          | Connect to 12 volt, 15 amp power supply  |
|                       | Broken or bent leaf valve inside the compressor                       | Replace leaf valve (See compressor breakdown on page 12)                       |
| Discharge Tube Leaks  | Bolt on the top of discharge tube is no longer sealed                 | Wrap Teflon tape around the bolt threads and replace the bolt                  |

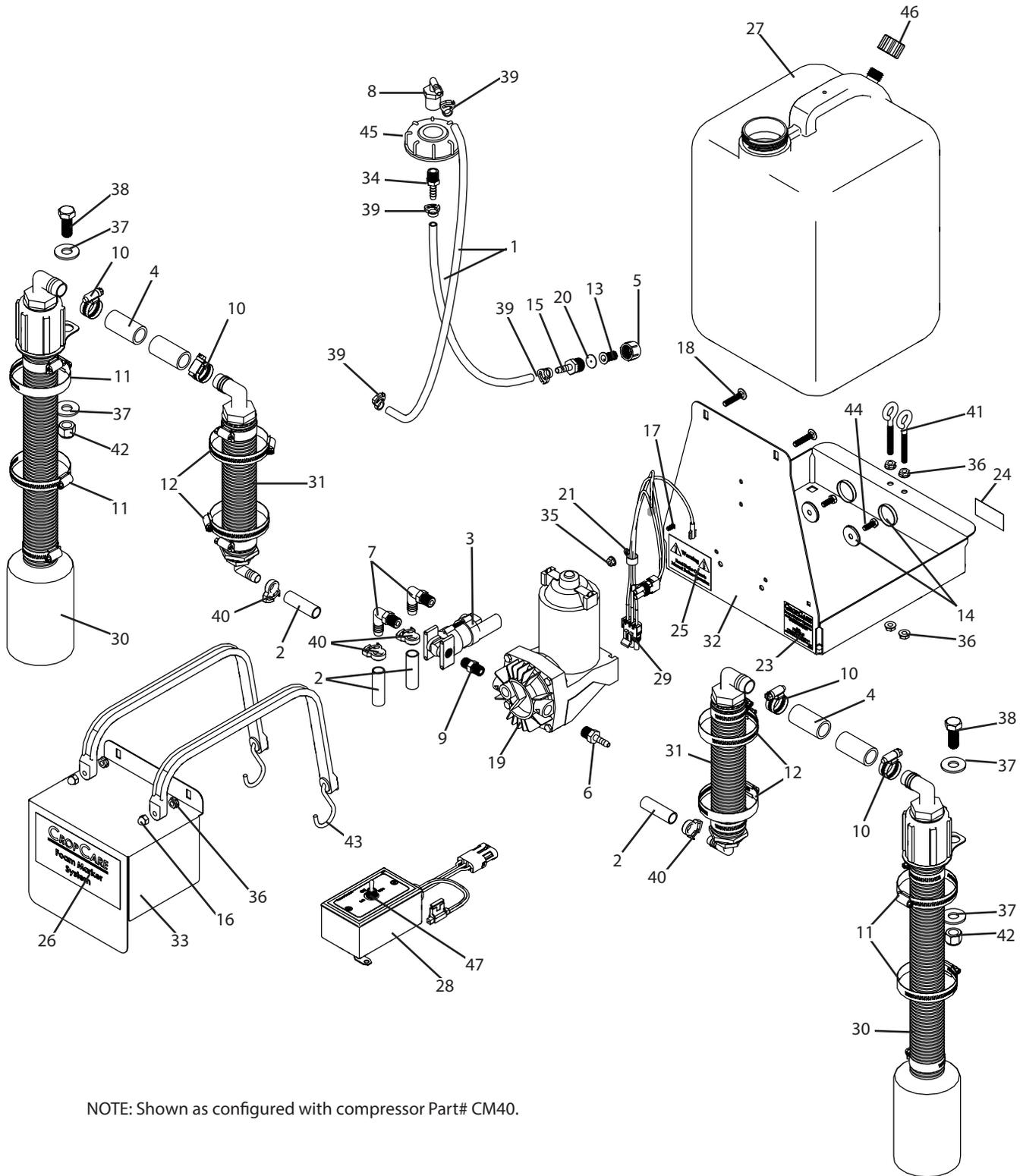
# Maintenance Instructions

## Wiring Schematic



# Breakdowns & Parts Lists

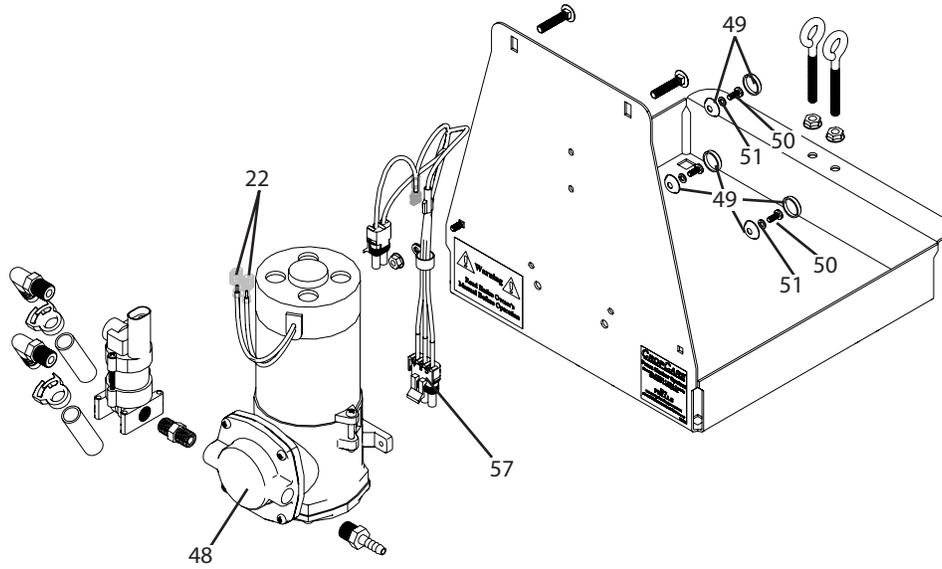
## Foam Marker Breakdown



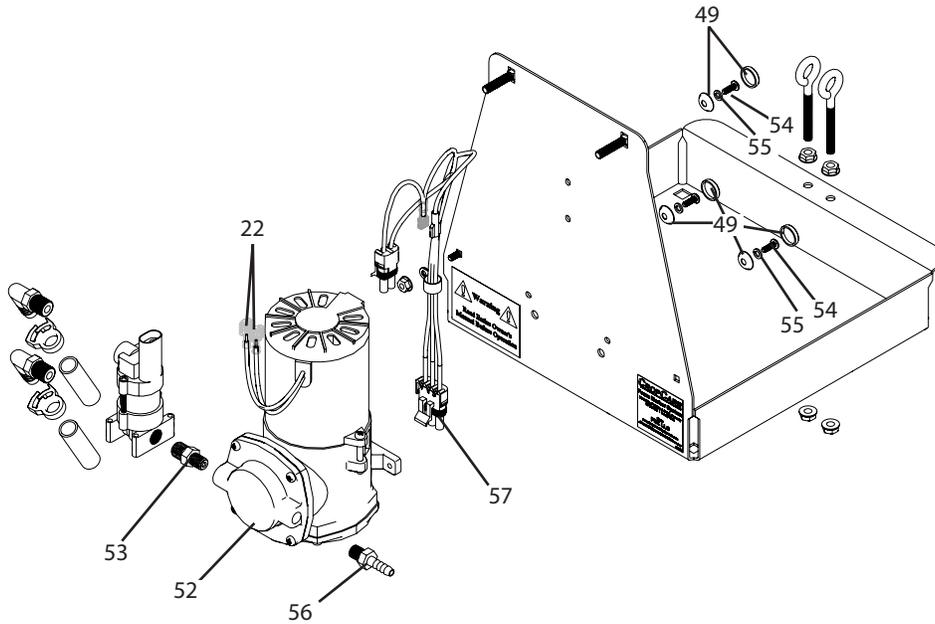
NOTE: Shown as configured with compressor Part# CM40.

# Breakdowns & Parts Lists

## Foam Marker Breakdown



NOTE: Shown as configured with compressor Part# GZ35-12.



NOTE: Shown as configured with compressor Part# 107CDC20.

# Breakdowns & Parts Lists

## Foam Marker Parts List

| Ref # | Qty. | Part Number | Description                                       |
|-------|------|-------------|---|
| 1     | 34"  | 1954        | Tubing, Vinyl 1/4" ID x 3/8" OD 55 PSI            |
| 2     | 1    | 1971-33L    | Tubing, Vinyl 33 FT Roll 1/2" ID x 5/8" OD 30 PSI |
| 3     | 1    | 2204AWP     | Solenoid, 3-Way 1/4" FPT 0.5 GPM 40 PSI 12V       |
| 4     | 1    | 3003-50L    | Hose, Suction 3/4" 50 FT Roll Clear PVC 100 PSI   |
| 5     | 1    | 38027       | Cap, Nozzle Tip/barb 11/16-16 UNF Poly            |
| 6     | 1    | 3A1414      | Adapter, Hose 1/4" MPT x 1/4" HB                  |
| 7     | 2    | 3EL1412     | Elbow, Hose 90° 1/4" MPT x 1/2" HB                |
| 8     | 1    | 3EL14F      | Elbow, Hose 90° 1/4" FPT x 1/4" HB                |
| 9     | 1    | 6468        | Nipple, Brass w/ Hex 1/4" MPT                     |
| 10    | 4    | 6810052     | Hose Clamp, 1/2" - 1-1/16" SS                     |
| 11    | 4    | 6828        | Hose Clamp, 1-1/4" - 2 1/4" SS                    |
| 12    | 4    | 6864052     | Hose Clamp, 2-1/2" - 4-1/2" SS                    |
| 13    | 1    | 8079PP100   | Strainer, Tip 100 Mesh Green Poly Body SS Screen  |
| 14    | 2    | 91620A970   | Cap, Snap Screw Head 1/4" Screw                   |
| 15    | 1    | A3814BR     | Adapter, Hose 3/8" MPT x 1/4" HB Brass            |
| 16    | 2    | AN14        | Nut, Acorn 1/4-20                                 |
| 17    | 1    | CB1024*12   | Bolt, Carriage 10-24 x 1/2" Gr 2                  |
| 18    | 2    | CB14*114    | Bolt, Carriage 1/4-20 x 1-1/4" Gr 2               |
| 19    | 1    | CM40        | Air Compressor, 1.27 CFM 40 PSI 12V 8A            |
| 20    | 1    | CP491645    | Orifice Plate, SS 0.088-0.306                     |
| 21    | 1    | DC2406      | Clamp, Loom 3/8" Nylon                            |
| 22    | 2    | DC834005    | Terminal, 16-14 Gauge Male (Fully Insulated)      |
| 23    | 1    | DE221       | Decal, F1500A Specs                               |
| 24    | 1    | DE222       | Decal, 5 Gal. Foam Marker Model and Revision      |
| 25    | 1    | DE39        | Decal, "Warning Read Owner's Manual"              |
| 26    | 1    | DE51        | Decal, Foamer Cover                               |
| 27    | 1    | F1503       | Tank, 5 gal White Foamer                          |
| 28    | 1    | F1507       | Harness, Foamer Power End                         |
| 29    | 1    | F1509A      | Wiring harness compressor end (CM40 compressor)   |
| 30    | 2    | F1525       | Drop Tube, Foamer, 3/4" Hose Barb                 |
| 31    | 2    | F1529       | Foam Marker, Mixing Chamber                       |
| 32    | 1    | F1532       | F1500A, Main Frame                                |
| 33    | 1    | F1533       | F1500A, Compressor Cover                          |
| 34    | 1    | F2506       | Adapter w/ breather hole, A1414BR                 |
| 35    | 1    | FN1024      | Nut, Flange 10-24                                 |
| 36    | 6    | FN14        | Nut, Flange 1/4-20                                |
| 37    | 4    | FW12S       | Washer, Flat, 1/2" SS                             |
| 38    | 2    | H12*114S    | Bolt, Hex 1/2-13 x 1 1/4 SS                       |
| 39    | 4    | HC041       | Clamp, Snap Grip 0.36" - 0.41" Size BB            |
| 40    | 4    | HC067       | Clamp, Snap Grip 0.59" - 0.67" Size F             |
| 41    | 2    | N221119     | Bolt, Eye Closed 1/4-20 x 3" Zinc                 |
| 42    | 2    | NNC12S      | Nut, Lock Nylon 1/2-13 SS                         |
| 43    | 2    | TS15        | Tarp Strap, 15" Rubber                            |
| 44    | 2    | H6X16M      | Metric bolt, 6 x 16mm 1.0 pitch                   |
| 45    | 1    | F1505       | Foamer Tank Lid                                   |

\* Component part breakdowns are available.

\*\* Lid part number without hole drilled.

\*\*\* Part is included in item 28.

+ Use part# F1534 with GZ35-12 and 107CDC20 compressors.

# Breakdowns & Parts Lists

## Foam Marker Parts List

| Ref # | Qty. | Part Number     | Description  |
|-------|------|-----------------|--|
| 46    | 1    | 6010-000-070 ** | Breather cap (Lid) has a drilled out hole in center of lid |
| 47    | 1    | DC7300131 ***   | Toggle switch, on-off-on                                   |
| 48    | 1    | GZ35-12 *       | Compressor, Diaphragm, 12V, 1/4 FPT ports                  |
| 49    | 3    | SC10S           | Cap, Snap Screw Head #10 Screw                             |
| 50    | 3    | MR4X10M         | Machine Screw, Phillips, Pan Head, 4M x 10M 7P Zinc        |
| 51    | 3    | LW4M            | Lock Washer, 4mm   |
| 52    | 1    | 107CDC20        | Compressor, Diaphragm, 12V, 1/8 FPT ports                  |
| 53    | 1    | 3325X0402       | Brass Nipple w/ Hex 1/4" x 1/8"                            |
| 54    | 3    | MR832*12        | Screw, Machine 8-32 x 1/2" Zinc                            |
| 55    | 3    | LW10            | Washer, Lock #10   |
| 56    | 1    | 3A1814          | Adapter, Hose 1/8" MPT x 1/4" HB, Poly                     |
| 57    | 1    | F1534           | Wiring harness compressor end (GZ35-12 compressor)         |

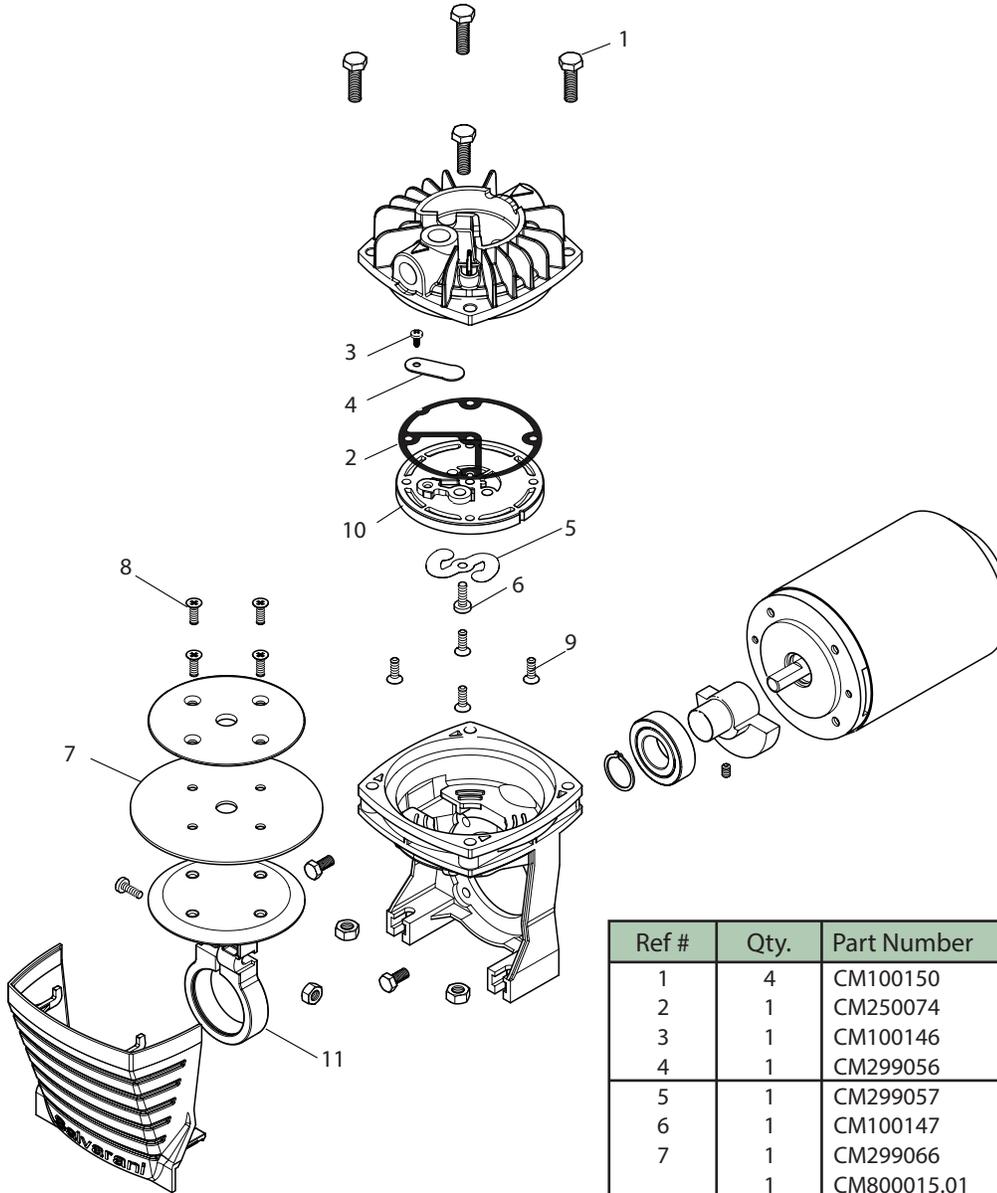
\* Component part breakdowns are available.

\*\* Lid part number without hole drilled.

\*\*\* Part is included in item 28.

# Breakdowns & Parts Lists

## CM40 Compressor Breakdown

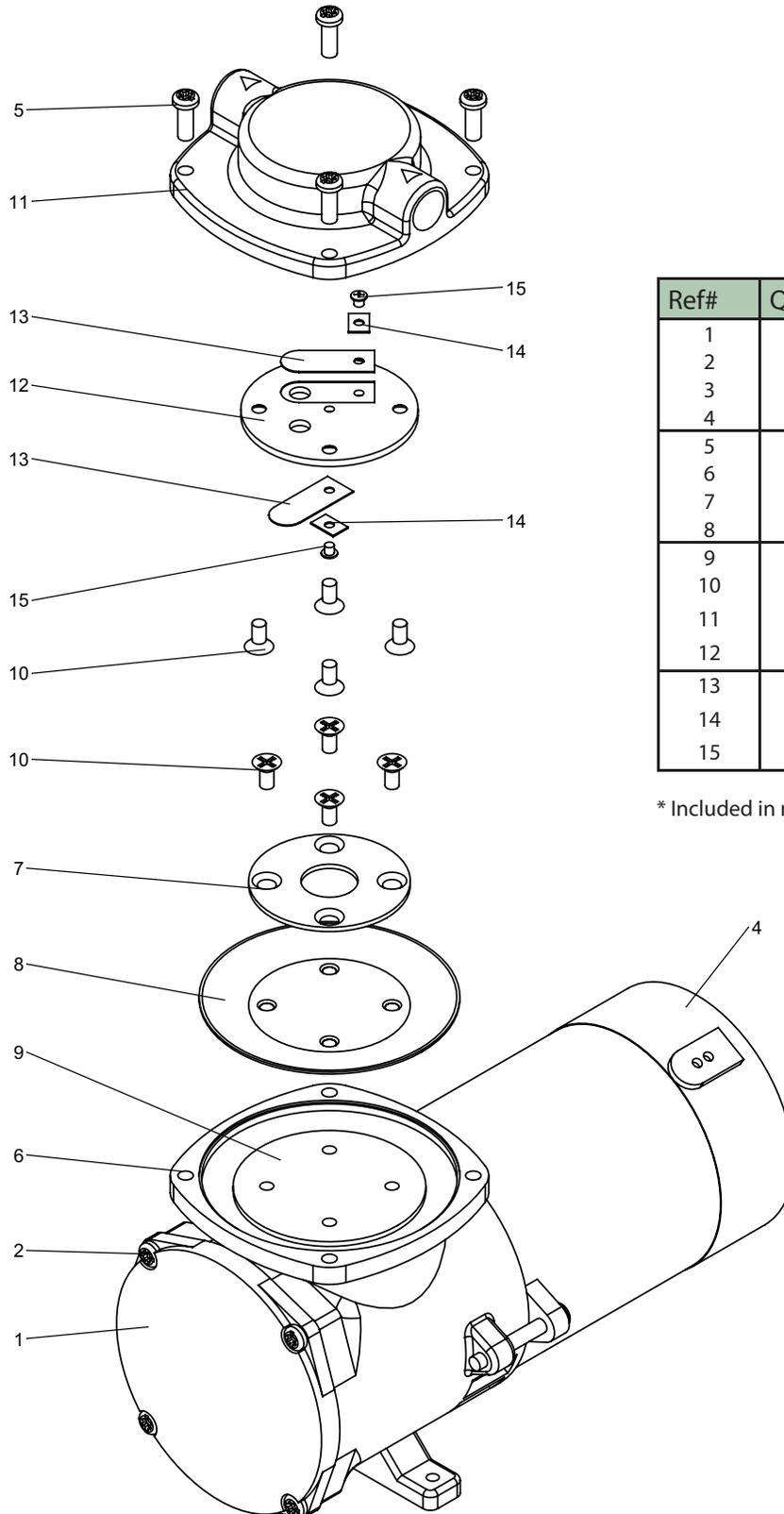


| Ref # | Qty. | Part Number | Description                          |
|-------|------|-------------|--------------------------------------|
| 1     | 4    | CM100150    | Screw                                |
| 2     | 1    | CM250074    | Head gasket                          |
| 3     | 1    | CM100146    | * Screw                              |
| 4     | 1    | CM299056    | * Leaf valve                         |
| 5     | 1    | CM299057    | * Leaf valve                         |
| 6     | 1    | CM100147    | * Screw                              |
| 7     | 1    | CM299066    | * Rubber diaphragm                   |
|       | 1    | CM800015.01 | Diaphragm kit (Includes ref #'s 3-7) |
| 8     | 4    | CM100149    | Screw                                |
| 9     | 4    | CM100148    | Screw                                |
| 10    | 1    | CM299061    | Valve plate                          |
| 11    | 1    | CM299067    | Connecting rod                       |

\* Included in a complete kit

# Breakdowns & Parts Lists

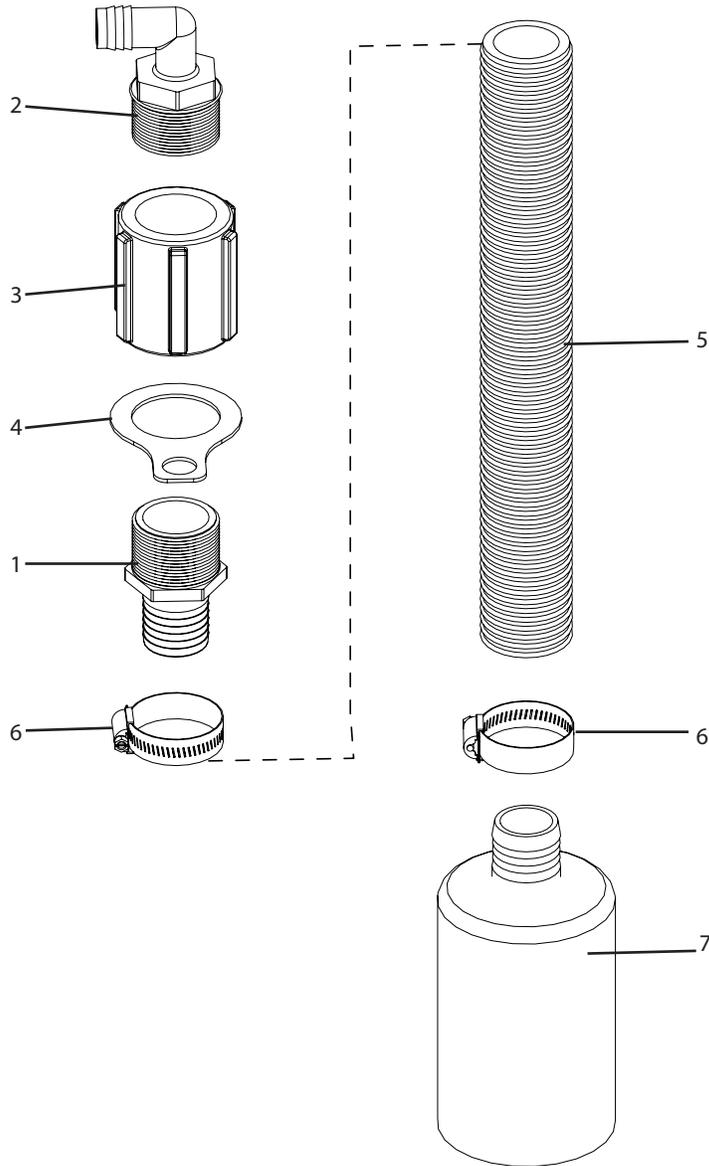
## GZ35-12 Compressor Breakdown



| Ref# | Qty. | Part Number          |
|------|------|----------------------|
| 1    | 1    | Housing End Cap      |
| 2    | 4    | Housing End Screws   |
| 3    | 2    | Motor Housing Screws |
| 4    | 1    | Motor                |
| 5    | 4    | Head Screws          |
| 6    | 1    | Housing              |
| 7    | 1    | Diaphragm Plate      |
| 8    | 1    | Diaphragm *          |
| 9    | 1    | Piston               |
| 10   | 8    | Head Screws          |
| 11   | 1    | Head                 |
| 12   | 1    | Valve Plate          |
| 13   | 2    | Leaf Valve *         |
| 14   | 2    | Leaf Valve Washer    |
| 15   | 2    | Leaf Screws          |

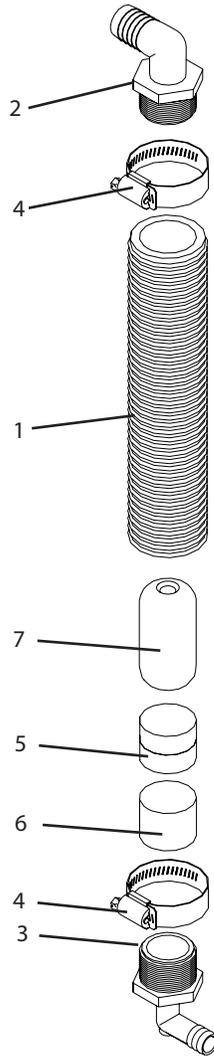
\* Included in repair kit (GZ35-15-RK)

## F1525 Discharge Tube Breakdown



| Ref# | Qty. | Part Number | Description                                |
|------|------|-------------|--|
| 1    | 1    | 3A114       | Fitting, Hose 1-1/4" MPT x 1-1/4" HB       |
| 2    | 1    | 3EL11434    | Adapter, Hose 90° 1-1/4" MPT x 3/4" HB     |
| 3    | 1    | 8FC114      | Coupler, 1-1/4" schedule 80 poly           |
| 4    | 1    | F1531       | Foam Marker Drop Tube Mount                |
| 5    | 13"  | 3511        | Hose, EPDM Enforcer 1-1/4" 100 PSI (Black) |
| 6    | 2    | 6824052     | Hose Clamp, 1" - 2" SS                     |
| 7    | 1    | F1526       | Foamer Drop Tube, Boot                     |

## F1529 Mixing Chamber Breakdown



| Ref# | Qty. | Part Number | Description                                |
|------|------|-------------|--|
| 1    | 8"   | 3511        | Hose, EPDM Enforcer 1-1/4" 100 PSI (Black) |
| 2    | 1    | 3EL10034    | Adapter, Hose 90° 1" MPT x 3/4" HB         |
| 3    | 1    | 3EL10012    | Adapter, Hose Ell 1" MPT x 1/2" HB         |
| 4    | 2    | 6824052     | Hose Clamp, 1" - 2" SS                     |
| 5    | 2    | F1529A      | Mixing Chamber, Open Cell Pad (Black)      |
| 6    | 1    | F1529B      | Mixing Chamber, Closed Cell Pad (White)    |
| 7    | 1    | F506        | Sponge, Mixing Chamber                     |

# CropCare® Limited Warranty

Foam Markers: F1500A

## Warranty Coverage

CropCare® hereby provides a Limited One (1) Year Warranty on Foam Markers, manufactured by CropCare®. Foam Markers manufactured by CropCare® are warranted against any manufacturer's defects in any of the foam marker's components in the 12 months following the original date of purchase.

Defective components will be repaired or replaced at the discretion of the manufacturer. It is the responsibility of the purchaser to return warranted components to the manufacturer. This warranty is limited to the repair or replacement of foam marker components only. CropCare® is not to be held liable for incidental or consequential damages of any kind. This warranty covers the purchaser of this foam marker and any other owners who own it during the one year warranty period.

To retain the warranty, the foam marker must be operated and maintained as ascribed by its owner's manual. For warranty service, please have a copy of the purchase invoice available.

## Warranty Is Void if:

1. The foam marker has been subjected to, in the opinion of CropCare®, negligent handling, misuse, an accident, or if instructions in the owner's manual were not followed.
2. The foam marker's components have been altered in any manner or repairs have taken place with unapproved parts. Alterations include adjusting the foam rate by any means.
3. The foam marker and its components were subject to freezing or were allowed to get wet repeatedly.
4. A non-approved foam concentrate was used such as dish soap, hand soap, or any other unapproved cleaning solution.
5. The foam marker was powered by a power source other than a 12 volt, 15 amp DC power source.



# ***CROPCARE***

Manufactured by PBZ LLC  
A Paul B Zimmerman Inc. Company  
[www.CropCareEquipment.com](http://www.CropCareEquipment.com)